

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK2004/000408

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61L27/38 A61L27/54 A61K35/32 C12N5/06 A61B17/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61L C12N A61F A61B A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/051834 A1 (DOMB ABRAHAM J ET AL) 13 December 2001 (2001-12-13) paragraphs [0005] - [0008], [0010] - [0013], [0016] - [0021], [0024] - [0026] ----- -/-	1-40

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search 21 September 2004	Date of mailing of the international search report 18 MAR 2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Böhm, I

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/06949 A (STORGAARD PETER ; INTERFACE BIOTECH AS (DK); OSTER KURT (US)) 1 February 2001 (2001-02-01) page 1, lines 4-6 page 3, lines 28-30 page 4, lines 14-31 page 5, lines 26-36 page 6, lines 27-34 page 8, lines 29-38 page 9, lines 8-11 page 11, lines 5-8, 36-39 page 18, lines 31-36 sentences 1-26; example 4 sentences 32,33; example 5 claims; figures	1-40
A	----- DE 100 13 223 A (CO DON AG) 11 October 2001 (2001-10-11) paragraphs [0001] - [0004], [0009], [0014], [0018], [0021], [0022]	1-40
A	----- ROBINSON D ET AL: "Articular cartilage chondrocytes are more advantageous for generating hyaline-like cartilage than mesenchymal cells isolated from microfracture repairs" 2001, CELL AND TISSUE BANKING, XX, XX, PAGE(S) 23-30, XP002902414 ISSN: 1389-9333 the whole document	1-26,40
A	----- WO 02/39946 A (SMITH & NEPHEW INC) 23 May 2002 (2002-05-23) page 2, lines 15-25 page 7, lines 1-12 claims	1-40
A	----- DE 100 54 857 A (BOHMANN ANTON ; KETTEL EDITH (DE)) 16 May 2002 (2002-05-16) the whole document	1-40
A	----- DE 39 41 023 A (BIOPLASTY INC) 13 June 1990 (1990-06-13) the whole document	1-40
A	----- DE 195 40 487 A (SCHULTZ OLAF ; BURMESTER GERD R PROF DR MED (DE); SITTINGER MICHAEL DR) 24 April 1997 (1997-04-24) column 1, lines 17-26 column 2, lines 18-33 claims; examples 1,2	1-40
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 181 908 A (VTS HOLDINGS LTD) 27 February 2002 (2002-02-27) paragraphs [0001], [0002], [0009], [0011] claims -----	1-40
A	US 5 736 372 A (VACANTI CHARLES A ET AL) 7 April 1998 (1998-04-07) column 4, lines 23-67 claims -----	1-26
A	US 5 429 603 A (MORRIS MICHAEL) 4 July 1995 (1995-07-04) the whole document -----	27-39

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-26, 40 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see annex

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-40 (entirely)

Claims 1-26,40 :

An endoscopic method for treating cartilage or bone defects

Claims 27-39 :

A kit for use in a method [...], the kit comprises two separate containers, the first container comprises the cells and the second container comprises the support material

2. claim: 41 (entirely)

Use of hydroxy apatite as culturing medium for cells such as osteoblasts/osteocytes.

3. claims: 42,43 (entirely)

Claim 42 :

Use of collagen solutions as culturing medium for the cells to be arthroscopically transplanted.

Claim 43 :

Use of collagen solutions as culturing medium for the cells to be endoscopically transplanted.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2001051834	A1	13-12-2001	US	2001014475 A1	16-08-2001	
			US	6637437 B1	28-10-2003	
			US	6378527 B1	30-04-2002	
			US	2004117033 A1	17-06-2004	
			US	2004044408 A1	04-03-2004	
			AU	3626700 A	09-10-2000	
			CA	2366669 A1	28-09-2000	
			EP	1171057 A1	16-01-2002	
			WO	0056251 A1	28-09-2000	
			US	2002123142 A1	05-09-2002	
			US	2002133235 A1	19-09-2002	
			US	2002012705 A1	31-01-2002	

WO 0106949	A	01-02-2001	AU	6566000 A	13-02-2001	
			CA	2378079 A1	01-02-2001	
			CZ	20020341 A3	11-09-2002	
			WO	0106949 A2	01-02-2001	
			EP	1206225 A2	22-05-2002	
			EP	1441028 A2	28-07-2004	
			JP	2003505143 T	12-02-2003	
			NO	20020439 A	28-01-2002	
			NZ	517199 A	28-11-2003	
			US	2002082623 A1	27-06-2002	
			ZA	200200514 A	30-06-2003	

DE 10013223	A	11-10-2001	DE	10013223 A1	11-10-2001	
			AU	3928701 A	24-09-2001	
			CA	2403120 A1	13-09-2002	
			WO	0168811 A2	20-09-2001	
			EP	1265986 A2	18-12-2002	
			US	2003153078 A1	14-08-2003	

WO 0239946	A	23-05-2002	AU	3418402 A	27-05-2002	
			CA	2426600 A1	23-05-2002	
			EP	1339348 A2	03-09-2003	
			JP	2004513848 T	13-05-2004	
			WO	0239946 A2	23-05-2002	
			US	2002112981 A1	22-08-2002	

DE 10054857	A	16-05-2002	DE	10054857 A1	16-05-2002	

DE 3941023	A	13-06-1990	DE	3941023 A1	13-06-1990	
			GB	2227176 A ,B	25-07-1990	
			JP	2243160 A	27-09-1990	
			JP	2694372 B2	24-12-1997	
			NL	8903049 A ,B,	02-07-1990	
			US	5571182 A	05-11-1996	
			US	5258028 A	02-11-1993	

DE 19540487	A	24-04-1997	DE	19540487 A1	24-04-1997	
			WO	9715655 A2	01-05-1997	
			EP	0801676 A2	22-10-1997	
			JP	10511884 T	17-11-1998	
			JP	3452366 B2	29-09-2003	
			US	6143501 A	07-11-2000	
			US	5932459 A	03-08-1999	

EP 1181908	A	27-02-2002	US	5759190 A	02-06-1998	

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DK2004/000408

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
EP 1181908	A	US 5989269 A	23-11-1999	
		DE 29724585 U1	16-05-2002	
		EP 1181908 A1	27-02-2002	
		EP 1384452 A1	28-01-2004	
		EP 1459709 A1	22-09-2004	
		SI 1006950 T1	31-12-2004	
		AT 256443 T	15-01-2004	
		AT 263524 T	15-04-2004	
		AU 731162 B2	22-03-2001	
		AU 4171097 A	19-03-1998	
		BR 9711967 A	18-01-2000	
		CA 2264138 A1	05-03-1998	
		CA 2419644 A1	05-03-1998	
		DE 69726896 D1	29-01-2004	
		DE 69726896 T2	28-10-2004	
		DE 69728569 D1	13-05-2004	
		DK 1181908 T3	13-04-2004	
		DK 1006950 T3	19-07-2004	
		DK 200200177 U1	04-06-2002	
		DK 200200178 U1	04-06-2002	
		EP 1006950 A2	14-06-2000	
		ES 2211722 T3	16-07-2004	
		ES 2218697 T3	16-11-2004	
		HU 0002980 A2	29-01-2001	
		JP 2002502272 T	22-01-2002	
		JP 2003159266 A	03-06-2003	
		KR 2000035886 A	26-06-2000	
		NO 990933 A	26-02-1999	
		NZ 334400 A	26-01-2001	
		NZ 508145 A	26-07-2002	
		NZ 518474 A	26-09-2003	
		PL 331834 A1	02-08-1999	
		PT 1181908 T	30-04-2004	
		PT 1006950 T	31-08-2004	
		RU 2214197 C2	20-10-2003	
		SK 24099 A3	12-03-2001	
		TR 9900437 T2	21-05-1999	
		TR 200102871 T2	21-06-2002	
		TR 200102883 T2	21-06-2002	
		US 2002116014 A1	22-08-2002	
		US 6120514 A	19-09-2000	
		US 2002116015 A1	22-08-2002	
		US 2002151912 A1	17-10-2002	
		US 2002091396 A1	11-07-2002	
		WO 9808469 A2	05-03-1998	
		US 2002173806 A1	21-11-2002	
		US 6283980 B1	04-09-2001	
		US 2004019361 A1	29-01-2004	
		US 2003195532 A1	16-10-2003	
US 5736372	A	07-04-1998	US 5041138 A	20-08-1991
			AT 142511 T	15-09-1996
			AU 635025 B2	11-03-1993
			AU 5556890 A	16-11-1990
			CA 2051663 A1	18-10-1990
			DE 69028524 D1	17-10-1996
			DE 69028524 T2	13-02-1997
			DK 469070 T3	30-09-1996

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/DK2004/000408

Patent document cited in search report	Publication date	Patent family member(s)		Publication date	
US 5736372	A	EP	0469070 A1	05-02-1992	
		ES	2095252 T3	16-02-1997	
		JP	6006155 B	26-01-1994	
		JP	4505717 T	08-10-1992	
		WO	9012603 A1	01-11-1990	
		US	5567612 A	22-10-1996	
		US	5804178 A	08-09-1998	
		US	5759830 A	02-06-1998	
		US	6309635 B1	30-10-2001	
		US	2002115165 A1	22-08-2002	
		AT	139432 T	15-07-1996	
		CA	1340581 C	08-06-1999	
		DE	3751843 D1	25-07-1996	
		DE	3751843 T2	12-12-1996	
		EP	0299010 A1	18-01-1989	
		JP	7102130 B	08-11-1995	
		JP	1501362 T	18-05-1989	
		WO	8803785 A1	02-06-1988	
		US	5770193 A	23-06-1998	
		US	5770417 A	23-06-1998	
US 5429603	A	04-07-1995	AU	9027491 A	08-07-1992
			WO	9210225 A1	25-06-1992
			EP	0560831 A1	22-09-1993

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